

Addendum #05 for RFB #951800-01

Project Name: DOM-IT Jessie Parker South Renovation

DAS RFB #: 951800-01

DAS Project: 9518.00

Date: May 01, 2026

Addendum #05:

This addendum is issued to modify, clarify, or amend the original Project Drawings and Specifications and is hereby made part of the Contract Documents. The Contractor shall be responsible for incorporating items in this Addendum to the Work. The following shall take precedence over anything to the contrary in the Drawings or Specifications. **This addendum shall also supersede any previous addenda.**

The receipt of this Addendum shall be acknowledged by inserting its number and date in the space provided on the Bid Form.

This Addendum consists of:

General Items:

1. Addendum Pages (3 Pages)
2. 28 3100 – Fire Alarm and Detection Systems (10 Pages)
3. Drawings Sheets – E000, E230, E231, E232, E400 (5 Pages)

Changes to Specifications

1. Specification 28 3100 – FIRE ALARM AND DETECTION SYSTEM:
 - a. REVISE paragraph 2.04(E) to the following:

“E. FA-220; Audio (Speaker) Alarm Devices:

 1. Wall or ceiling mounted, refer to plans.
 2. Sound rating shall be dependent on the tap (wattage) setting. Tap settings shall be available in 3 dBA increments. A minimum of four (4) tap settings should be available to allow field adjustment of the sound output across a minimum of range of 78 to 87 dBA, 400Hz to 4KHz (6 dBA cutoff) frequency range. Speakers shall operate on a 25-volt or 70-volt RMS system, unless otherwise noted on drawings.
 3. Speakers shall clearly reproduce a signal consisting of a live or prerecorded human voice with voice intelligibility.
 4. Speaker, housing, and backbox shall be UL listed for fire alarm/emergency applications.
 5. Wall Mounted: Speaker, square housing, flush or semi-flush mounted.
 6. Ceiling Mounted: 4” speaker, round housing, flush mounted (provide tile bridge where applicable).”
 - b. REVISE paragraph 2.04(F) to the following:

“F. FA-221: Combination Audio (Voice) and Visual Alarm Device:

 1. Wall or ceiling mounted, refer to plans.
 2. Combine speaker and visual components into a single device. Refer to corresponding paragraphs above for requirements of each component.”

Changes to Drawings

1. Drawing E000 – ELECTRICAL COVERSHEET:
 - a. REVISE fire alarm horn symbol to a speaker symbol.
2. Drawing E230 – LOWER LEVEL FLOOR PLAN - SYSTEMS:
 - a. ADD sheet notes #3 and #4.
 - b. REVISE fire alarm horn notification devices to speaker type.
3. Drawing E231 – LEVEL 1 FLOOR PLAN - SYSTEMS:
 - a. ADD sheet notes #5 & #6.
 - b. ADD keynote #5.
 - c. ADD new fire alarm transponder panel in Data JS128.
 - d. REVISE fire alarm horn notification devices to speaker type.
4. Drawing E232 – LEVEL 2 FLOOR PLAN - SYSTEMS:
 - a. ADD sheet note #5 and #6.
 - b. REVISE fire alarm horn notification devices to speaker type.
5. Drawing E400 – ELECTRICAL DETAILS:
 - a. REVISE details #2 and #4.

SECTION 28 3100

FIRE ALARM AND DETECTION SYSTEMS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Fire alarm and detection systems.

1.02 RELATED WORK

- A. Section 26 0553 - Electrical Identification: Refer to electrical identification for color and identification labeling requirements.

1.03 QUALITY ASSURANCE

- A. Qualifications: The person managing/overseeing the preparation of shop drawings and the system installation/programming/testing shall be trained and certified by the system manufacturer and shall be Fire Alarm Certified by NICET, minimum Level 2. This person's name and certification number shall appear on the start-up and testing reports.

1.04 REFERENCES

- A. NFPA 70 - National Electrical Code (NEC)
- B. NFPA 72 - National Fire Alarm and Signaling Code
- C. NFPA 101 - Life Safety Code
- D. UL 2017 - General Purpose Signaling Devices and Systems
- E. UL 217 / 268 - Standard for Smoke Alarms / Smoke Detectors for Fire Alarm Systems

1.05 SUBMITTALS

- A. Submit shop drawings and product data under provisions of Section 26 0500 and as noted below.
 - 1. Failure to comply with all the following and all the provisions in 26 05 00 will result in the shop drawing submittal being rejected without review.
 - 2. Failure to submit the fire alarm without all requirements fulfilled in a single comprehensive submittal will be grounds to require a complete resubmittal.

- B. Provide product catalog data sheets as shop drawings.
 - 1. Provide a product catalog data sheet for each item shown on the Electrical Symbols List and for each piece of equipment that is not shown on the drawings but required for the operation of the system.
 - 2. Where a particular Electrical Symbols List item has one or more variations (such as those denoted by subscripts, etc.) a separate additional product catalog data sheet shall be provided for each variation that requires a different part number to be ordered. The corresponding Electrical Symbols List symbol shall be shown on the top of each sheet.
 - 3. Where multiple items and options are shown on one data sheet, the part number and options of the item to be used shall be clearly denoted.
- C. Submit CAD Floor Plans as Shop Drawings:
 - 1. The complete layout of the entire system, device addresses, auxiliary equipment, and manufacturer's wiring requirements shall be shown.
 - 2. A legend or key shall be provided to show which symbols shown on the submittal floor plans correspond with symbols shown on the Contract Documents.
- D. About all fire alarm circuits, provide the following: manufacturer's wiring requirements (manufacturer, type, size, etc.) and voltage drop calculations.
- E. Provide installation and maintenance manuals under provisions of Section 26 0500.
- F. Submit manufacturer's certificate that system meets or exceeds specified requirements.
- G. Provide information on the system batteries as follows: total battery capacity, total capacity used by all devices on this project, total available future capacity.
- H. Submit photocopy proof of NICET certification of the person overseeing the preparation of drawings and installation/testing.
- I. When required to comply with local or state regulatory reviews, the fire alarm submittal shall have a NICET Certification of the state in which the project is completed. NOTE: The Architect/Engineer cannot stamp and seal submittal drawings not prepared under their supervision.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site under provisions of Section 26 0500.
- B. Store and protect products under provisions of Section 26 0500.

1.07 REGULATORY REQUIREMENTS

- A. System: UL or FM Global listed.
- B. Conform to requirements of NFPA 101.
- C. Conform to requirements of Americans with Disabilities Act (ADA).
- D. Conform to UL 864 Fire Alarm, UL 1076 Security, UL2017 General Signaling.

1.08 SYSTEM DESCRIPTION

- A. Performance Statement: This specification section and the accompanying fire alarm specific design documents describe the minimum material quality, required features, and operational requirements of the system. These documents do not convey every wire that must be installed and every equipment connection that must be made. Based on the equipment described and the performance required of the system, as presented in these documents, the Vendor and the Contractor are solely responsible for determining all wiring, programming and miscellaneous equipment required for a complete and operational system.
- B. This section of the specifications includes the furnishing, installation and connection of the microprocessor controlled, intelligent reporting, fire alarm equipment required to form a complete coordinated system that is ready for operation. It shall include, but is not limited to, alarm initiating devices, control panels, auxiliary control devices, annunciators, power supplies, and wiring as indicated on the drawings and specified herein.
- C. Extending the Existing Fire Alarm System: Provide all items, components, devices, hardware, software, programming, expansion components, conduit, wiring etc. needed to extend the existing fire alarm system. This includes, but is not limited to, additional power supplies, initiating devices and circuits, signaling devices and circuits, monitoring devices and circuits, auxiliary control and related devices such as, door holders and their control, smoke damper control, fan shutdown, etc. The existing fire alarm system shall be extended such that the existing fire alarm system's functionality, integrity and annunciation shall be equivalent to pre-construction conditions, unless noted otherwise. The functionality and integrity shall be maintained during construction. The entire system shall be able to be completely reset from any single reset location point. The entire system shall be annunciated at any annunciation location.
- D. Extending the Existing SIMPLEX 4100U Fire Alarm System: The existing control panel shall remain and shall be operational throughout construction. The system shall only be disabled to make new connections and to modify the programming. A fire watch shall be provided for all areas affected during outages. All system outages must be scheduled with the Owner at least one week prior. Individual devices may be disabled as needed based on construction activities to reduce the potential for false alarms, but all devices must be operational when the Contractor is not physically on site. New initiating devices may be connected to the existing signaling line circuits where capacity is available. Provide additional signaling line circuits as needed based on existing and new device quantity, including replacement of existing panel components. Provide new notification circuits to serve the new devices, including all necessary power supplies, amplifiers, batteries, and 120-volt input circuits. All new devices shall be programmed to provide the same sequence of operation as the existing devices of the same type, unless noted otherwise.
- E. Fire Alarm System: NFPA 72; Automatic and manual fire alarm system, non-coded, analog-addressable with automatic sensitivity control of certain detectors, multiplexed signal transmission.
- F. System Supervision: Provide electrically supervised system, with supervised Signal Line Circuit (SLC) and Notification Appliance Circuit (NAC). Occurrence of single ground or open condition in initiating or signaling circuit places circuit in TROUBLE mode. Component or power supply failure places system in TROUBLE mode.
- G. Alarm Reset: Key-accessible RESET function resets alarm system out of ALARM if alarm initiating circuits have cleared.
- H. Lamp Test: Manual LAMP TEST function causes alarm indication at each zone at fire alarm control panel and at annunciator panels.

- I. Drawings: Only device layouts and some equipment have been shown on the contract drawings. Wiring and additional equipment to make a complete and functioning system has not been shown but shall be submitted on the shop drawings.

1.09 PROJECT RECORD DOCUMENTS

- A. Submit documents under the provisions of Section 26 0500.
- B. Include location of end-of-line devices.
- C. Provide a CAD drawing of each area of the building (minimum scale of 1/16" = 1'-0") showing each device on the project and its address. The devices shall be shown in their installed location and shall be labeled with the same nomenclature as is used in the fire alarm panel programming.
- D. Submit test results of sound pressure level (dBA) with the rooms tested designated on the floor plan. Notification devices shall have the tap wattage designated.

1.10 OPERATION AND MAINTENANCE DATA

- A. Submit data under provisions of Section 26 0500.
- B. Include operating instructions, and maintenance and repair procedures.
- C. Include results of testing of all devices and functions.
- D. Include manufacturer's representative's letter stating that system is operational.
- E. Include the CAD floor plan drawings.
- F. Include shop drawings as reviewed by the Architect/Engineer and the local Authority Having Jurisdiction.

1.11 WARRANTY

- A. Provide one (1) year warranty on all materials and labor from Date of Substantial Completion.
- B. Warranty requirements shall include furnishing and installing all software upgrades issued by the manufacturer during the one (1) year warranty period.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Johnson Controls - Simplex

2.02 FIRE ALARM PATHWAY CLASS AND SURVIVABILITY LEVEL

A. Pathway Class:

1. Pathway Class B: Circuits NOT capable of transmitting an alarm beyond the location of the fault condition. Wiring of outgoing and return conductors is permitted to be run in the same conduit or cable.

B. Pathway Survivability Level:

1. Pathway Survivability Level 0: Circuits have no requirements for pathway survivability beyond the requirements of the code.
2. Shared Pathway Designation Level 1: Physical segregation of life safety and non-life safety data is not required. Life safety data shall be the priority.

2.03 SIGNALING LINE CIRCUIT DEVICES

A. Combination Devices: Subscripts identify combination type devices when applicable. Contractor shall provide the combination device or provide multiple device(s) to meet the functionality when the manufacturer does not offer the required functionality with a single device.

B. Signal Line Device(s):

1. Subscripts: Subscripts are used to define the device type, installation, and identify the device with a specific sequence of operation.

a. Device type as follows:

1) Candela Ratings:

- a) ## = 15 Candela, 30 Candela; 75 Candela; 110 Candela; 177 Candela

C. FA-120; Smoke Detectors:

1. Subscripts are used to define the device type, installation, and identify the device with a specific sequence of operation.

a. Device types as follows:

1) Blank = Photoelectric

2. (BLANK) Analog Photoelectric Type Sensor: Shall use the photoelectric principle to measure smoke density and send data to the control panel representing the analog level of smoke density measured.
3. Each smoke detector shall connect directly to an SLC loop, unless listed as stand alone.
4. Each detector shall be mounted, where shown on the drawings, on a twist-lock base with all mounting hardware provided. Provide a two-piece head/base design.
5. Each detector shall have a manual switching means to set the internal identifying code (address) of that detector, which the control panel shall use to identify its address with the type of sensor connected.

6. Dual alarm and power indicators shall be provided that flash under normal conditions and remain continuous under alarm or trouble conditions. Remote indicator terminals shall be provided. Provide a remote LED indicator device if detector is not visible from a floor standing position.
7. A test means shall be provided to simulate an alarm condition.

2.04 NOTIFICATION APPLIANCE DEVICES

- A. Combination Devices: Subscripts identify combination type devices when applicable. Contractor shall provide the combination device or provide multiple device(s) to meet the functionality when the manufacturer does not offer the required functionality with a single device.
- B. Notification Appliance Device(s):
 1. Subscripts: Subscripts are used to define the device type, installation, and identify the device with a specific sequence of operation.
 - a. Device types as follows:
 - 1) Candela Ratings:
 - a) ## = 15 Candela; 30 Candela; 75 Candela; 110 Candela; 177 Candela
- C. Notification Device(s):
 1. Wall Mounted: Red housing with white lettering or pictogram.
 2. Ceiling Mounted: White housing with red lettering or pictogram.
- D. FA-200; Visual Alarm Devices:
 1. Wall or ceiling mounted, refer to plans.
 2. High intensity (Candela rating as scheduled on the drawings) xenon strobe or equivalent under a lens. Candela rating shall be visible from exterior of the device.
 3. The maximum pulse duration shall be 0.2 seconds with a maximum duty cycle of 40%. The flash rate shall be 1 Hz. Where more than two strobes are visible from any one location, the fire alarm visual devices shall be synchronized.
 4. Device, housing, and backbox shall be UL listed for fire alarm/emergency applications.
- E. FA-220; Audio (Speaker) Alarm Devices:
 1. Wall or ceiling mounted, refer to plans.
 2. Sound rating shall be dependent on the tap (wattage) setting. Tap settings shall be available in 3 dBA increments. A minimum of four (4) tap settings should be available to allow field adjustment of the sound output across a minimum of range of 78 to 87 dBA, 400Hz to 4KHz (6 dBA cutoff) frequency range. Speakers shall operate on a 25-volt or 70-volt RMS system, unless otherwise noted on drawings.
 3. Speakers shall clearly reproduce a signal consisting of a live or prerecorded human voice with voice intelligibility.
 4. Speaker, housing, and backbox shall be UL listed for fire alarm/emergency applications.
 5. Wall Mounted: Speaker, square housing, flush or semi-flush mounted.
 6. Ceiling Mounted: 4" speaker, round housing, flush mounted (provide tile bridge where applicable).

- F. FA-221: Combination Audio (Voice) and Visual Alarm Device:
 - 1. Wall or ceiling mounted, refer to plans.
 - 2. Combine speaker and visual components into a single device. Refer to corresponding paragraphs above for requirements of each component.

2.05 NOTIFICATION APPLIANCE CIRCUIT PANEL (NAC)

- A. As shown on the plans or as a Contractor's option if not shown, furnish and install NAC extender panels as necessary to provide remote power supply for notification appliance circuits (NAC). Contractor shall indicate quantity and locations of each NAC on the shop drawing submittals.
- B. Each NAC shall be self-contained remote power supply with batteries, and battery charger mounted in a surface lockable cabinet. Battery capacity shall be sufficient for operation for 24 hours in a non-alarm state followed by alarm for 15 minutes, plus 25% spare capacity for future devices. Each NAC provides a minimum of up to 4 outputs, 2A continuous, or 6A full load total capacity.
- C. Power for each NAC shall be from a local 120 VAC emergency circuit. Provide two #12 conductors and one #12 ground in 1/2" conduit to each NAC from a dedicated 20A/1P circuit breaker with a red handle and a manufacturer's standard handle lock-on device. Coordinate panel and circuit number with the Architect/Engineer prior to installation.
- D. NAC extender panels may be installed only in locations coordinated with the Architect/Engineer.
- E. Mounting: Surface.

2.06 WIRING

- A. Fire alarm wiring/cabling shall be furnished and installed by the Contractor in accordance with the manufacturer's recommendations and pursuant to National Fire Codes. Cabling shall be UL listed and labeled as complying with the Electrical Code for power-limited fire alarm signal service.
- B. Fire Alarm Cable:
 - 1. Manufacturers:
 - a. Comtran Corp.
 - b. Helix/HiTemp Cables, Inc.
 - c. Rockbestos-Suprenant Cable Corp.
 - d. West Penn Wire/CDT.
 - e. Radix.

PART 3 - EXECUTION

3.01 SEQUENCES OF FIRE ALARM OPERATION

- A. General:
 - 1. Refer to the Fire Alarm Operation Matrix on the drawings for basic requirements and system operation.

2. All system output programs assigned via control-by-event equations to be activated by the particular point in alarm shall be executed, and the associated system outputs (alarm notification appliances and/or relays) shall be activated.
- B. Audible Alarms Sequence:
1. Audible alarms throughout the building shall sound.
- C. Visual Alarms Sequence:
1. Visual alarms throughout the building shall flash.

3.02 INSTALLATION

- A. Install system in accordance with manufacturer's instructions and referenced codes.
- B. Devices:
1. General:
 - a. All ceiling-mounted devices shall be located where shown on the reflected ceiling and floor plans. If not shown on the reflected ceiling or reflected floor drawings, the devices shall be installed in the relative locations shown on the floor drawings in a neat and uniform pattern.
 - b. All devices shall be coordinated with luminaires, diffusers, sprinkler heads, piping and other obstructions to maintain a neat and operable installation. Mounting locations and spacing shall not exceed the requirements of NFPA 72.
 - c. Where the devices are to be installed in a grid type ceiling system, the detectors shall be centered in the ceiling tile.
 - d. The location of all fire alarm devices shall be coordinated with other devices mounted in the proximity. Where a conflict arises with other items or with architectural elements that will not allow the device to be mounted at the location or height shown, the Contractor shall adjust location of device so that new location meets all requirements in NFPA 72 and all applicable building codes.
 2. Per the requirements of NFPA, detector heads shall not be installed until after the final construction cleaning unless required by the local Authority Having Jurisdiction (AHJ). If detector heads must be installed prior to final cleaning (for partial occupancy, to monitor finished areas or as otherwise required by the AHJ), they shall not be installed until after the fire alarm panel is installed, with wires terminated, ready for operation. Any detector head installed prior to the final construction cleaning shall be removed and cleaned prior to closeout.
 3. Protection of Fire Alarm System:
 - a. A smoke detector shall be installed within the vicinity of the main fire alarm panel and every NAC extender panel per NFPA 72. A heat detector may be substituted when a smoke detector is not appropriate for the environment of installation.
 4. Notification Appliance Devices:
 - a. Devices shall be located where shown on the drawings.
 - b. Wall-mounted audio, visual and audio/visual alarm devices shall be mounted as denoted on the drawings.

C. Wiring:

1. Fire alarm wiring/cabling shall be provided by the Contractor in accordance with the manufacturer's recommendations and pursuant to National Fire Codes.
2. Wiring shall be installed in conduit from device to above accessible ceilings. Exposed plenum-rated cable (FPLP) shall be used above accessible ceilings supported every 4 feet or run in cable trays (if applicable) maintaining a minimum of 5-inches clearance from all lighting ballasts. Fire alarm cabling shall not be installed in the same bridge rings or cable trays designated for the cabling of other systems.
3. All junction boxes with SLC and NAC circuits shall be identified on cover. Refer to Identification Section 26 0513 for color and identification requirements.
4. Fire Alarm Power Branch Circuits: Building wiring as specified in Section 26 0513.
5. Notification Appliance Circuits shall provide the features listed below. These requirements may require separate circuits for visual and audible devices.
 - a. Fire alarm temporal audible notification for all audio appliances.
 - b. Synchronization of all visual devices where two or more devices are visible from the same location.
 - c. Ability to silence audible alarm while maintaining visual device operation.
6. Notification Appliance Circuits shall not span floors or smoke compartments. Refer to architectural drawings for smoke compartments.
7. Signal line circuits connecting devices shall not span floors or 2-hour smoke compartments.
8. No wiring other than that directly associated with fire alarm detection, alarm or auxiliary fire protection functions shall be in fire alarm conduits. Wiring splices shall be avoided to the extent possible, and if needed, they shall be made only in junction boxes, and enclosed by plastic wire nut type connectors. Transposing or changing color coding of wires shall not be permitted. All conductors in conduit containing more than one wire shall be labeled on each end, in all junction boxes, and at each device with "E-Z Markers" or equivalent. Conductors in cabinets shall be carefully formed and harnessed so that each drops off directly opposite to its terminal. Cabinet terminals shall be numbered and coded, and no unterminated conductors are permitted in cabinets or control panels. All controls, function switches, etc. shall be clearly labeled on all equipment panels.

D. Fire Alarm Cabling Color Code: Provide circuit conductors with insulation color coding as follows, or using colored tape at each conductor termination and in each junction box.

1. Power Branch Circuit Conductors: In accordance with Section 26 0553.
2. Signaling Line Circuit: Overall red jacket with black and red conductors.
3. DC Power Supply Circuit: Overall red jacket with violet and brown conductors.
4. Notification Appliance Circuit: Overall red jacket with blue and white conductors.
5. Central Station Trip Circuit: Orange conductors.
6. Central Station Fire Alarm Loop: Black and white conductors.

E. Devices surface mounted in finished areas shall be mounted on surface backboxes furnished by fire alarm equipment supplier. Backboxes shall be painted to match device, shall be the same shape and size as the device shall not have visible knockouts.

F. Make conduit and wiring connections to door release devices, sprinkler flow and pressure switches, sprinkler valve monitor switches, fire suppression system control panels, duct analog smoke detectors and all other system devices shown or noted on the Contract Documents or required in the manufacturer's product data and shop drawings.

3.03 FIELD QUALITY CONTROL

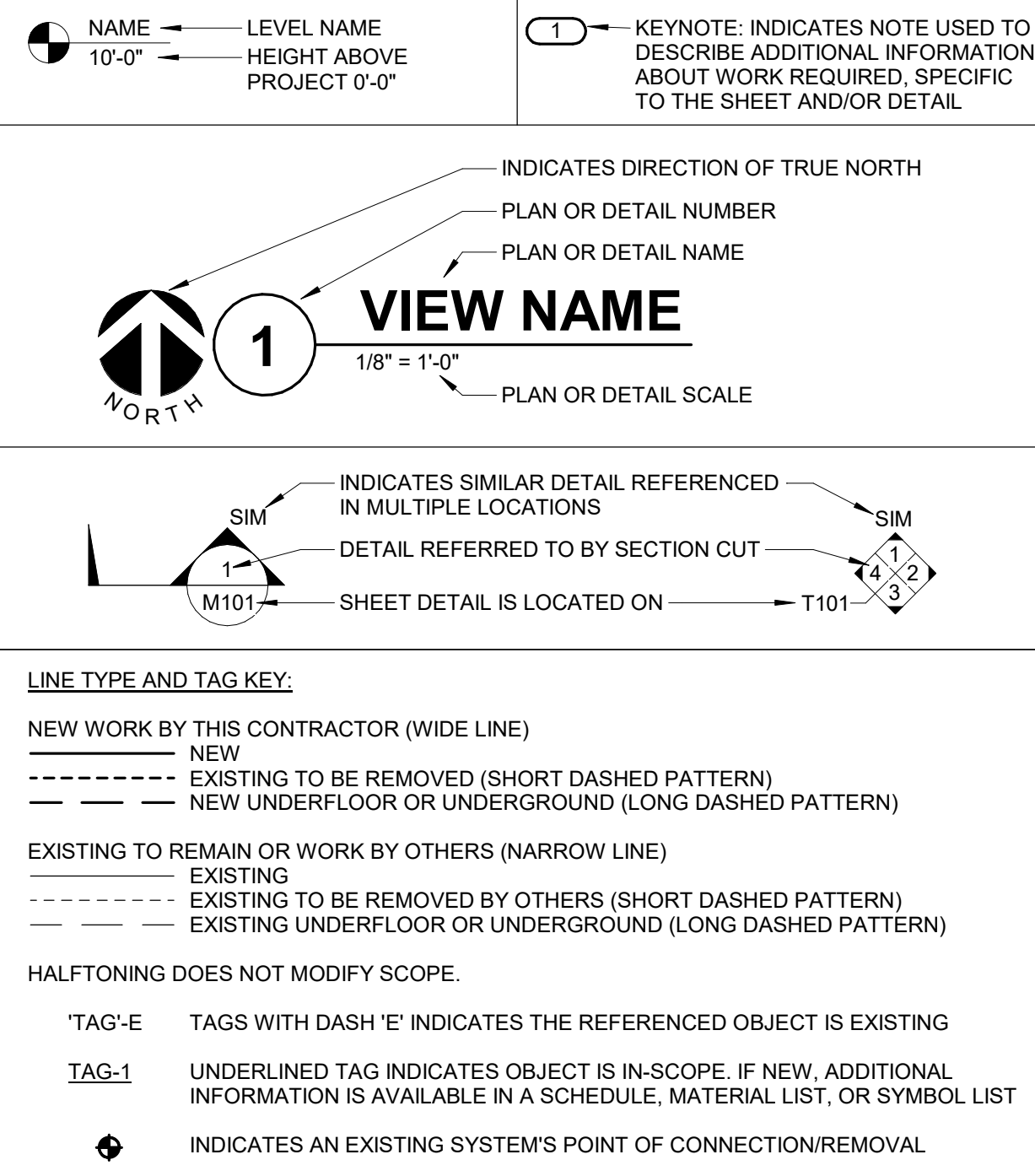
- A. Field inspection and testing will be performed under provisions of Section 26 0500.
- B. Test in accordance with NFPA 72, Chapter 14 and local fire department requirements. Submit documentation with O & M manuals in accordance with Section 14.6 of the Code.
- C. Contractor shall test and adjust the fire alarm system as follows:
 - 1. Speaker taps shall be adjusted to the lowest tap setting which achieves a sound level higher than or equal to the greatest of the following:
 - a. 70dBA.
 - b. 15 dBA above ambient levels as indicated in NFPA 72 Table A.18.4.3.
 - c. 15 dBA above measured ambient. 5 dBA above the maximum measured sound level with duration of more than 60 seconds.
 - d. As specified on the drawings.
 - 2. Sound level measurement procedure shall meet the following requirements:
 - a. All measurements shall use the 'A' weighted, dBA, sound measurement scale.
 - b. All measurements shall be taken after furnishings, wall coverings and floor coverings are in place.
 - c. All measurements shall be taken after fixed equipment (HVAC units, etc.) producing ambient noise is installed and is in operation.
 - d. All sound level measurements shall be taken at a height of 5' above the finished floor level.
 - e. Measurements shall be taken in every unique room. If there are multiple rooms, which have the identical dimensions and function, 10%, or a minimum of two (2) rooms shall be tested. The results from the rooms tested shall be averaged and the remaining rooms may be adjusted per the average.
 - f. Measurements shall be taken on a 20' x 20' grid and the results for all points taken shall be averaged. If the room is smaller than 20' x 20' a minimum of two measurements are required.
 - g. Measurements shall be taken halfway between speakers or halfway between a speaker and the wall. No measurements shall be taken at the extreme edges of the room, nor directly under speakers.

3.04 MANUFACTURER'S FIELD SERVICES

- A. Provide manufacturer's field services under provisions of Section 26 0500.
- B. Include services of certified technician to supervise installation, adjustments, final connections, and system testing.
- C. Note that room numbers depicted on the architectural/engineering drawings will not necessarily reflect the actual room (signage) numbers that the Owner selects. Contractor and fire alarm manufacturer shall coordinate the actual room numbers as the Owner directs to identify each device. This list shall be a part of the floor plan record drawing to be turned in at the project closeout.

END OF SECTION

VIEW KEY



APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:	
BUILDING CODE:	IBC 2024 EDITION
FIRE CODE:	IFC 2024 EDITION
PLUMBING CODE:	IOWA STATE PLUMBING CODE (UPC 2024)
MECHANICAL CODE:	IOWA STATE MECHANICAL CODE (IMC 2024)
ELECTRICAL CODE:	NFPA 70 (NEC) 2023 EDITION
ENERGY CONSERVATION CODE:	IECC 2012

CONTACT PERSONS:

DESCRIPTION:	PERSON:
PROJECT MANAGER	NATHANIEL JACQUES
MECHANICAL	JOSHUA MUCHEWICZ
ELECTRICAL	ZACHARY R ROSS
SOUND MASKING	JASON WRIGHT

CONDUIT INSTALLATION SCHEDULE

THE FOLLOWING SCHEDULE SHALL BE ADHERED TO UNLESS THEY CONSTITUTE A VIOLATION OF APPLICABLE CODES OR ARE NOTED OTHERWISE ON THE DRAWINGS. THE INSTALLATION OF RMC CONDUIT WILL BE PERMITTED IN PLACE OF ALL CONDUIT SPECIFIED IN THIS SCHEDULE. REFER TO CONDUIT AND BOXES SPECIFICATION 26 05 33 FOR ADDITIONAL INFORMATION.

INSTALLATION TYPE	RMC	EMT	ASR
BRANCH CIRCUITS: LIGHTING, RECEPTACLES, CONTROLS, ETC.		X	
MECHANICAL EQUIPMENT FEEDERS: PUMPS, CHILLERS, AIR HANDLING UNITS, ETC.		X	
FLOOR MOUNTED EQUIPMENT FEEDERS: PUMPS, ETC. (INCLUDE NO MORE THAN 6 FEET OF LFMC TO PUMP)		X	
CONTROLS (LIGHTING, POWER, BUILDING AUTOMATION, ETC.)		X	
WET AND DAMP LOCATIONS: (CONDUIT, BOXES, FITTINGS, INSTALLED AND EQUIPPED TO PREVENT WATER ENTRY)	X		
INTERIOR LOCATIONS WITH FINISHED CEILING AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILINGS		X	
INTERIOR LOCATIONS WITHOUT FINISHED CEILINGS: CONCEALED IN WALL, EXPOSED ABOVE CEILINGS		X	
EXISTING INTERIOR LOCATIONS WITH FINISHED CEILINGS AND WALLS: CONCEALED IN WALLS AND ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED		X	X

SYSTEM INPUTS	SEQUENCE OF OPERATION	PANEL/ANNUNCIATOR ALARM INDICATION	PANEL/ANNUNCIATOR SUPERVISORY INDICATION	PANEL/ANNUNCIATOR TROUBLE INDICATION	AUDIBLE ALARMS SEQUENCE	VISUAL ALARMS SEQUENCE
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL LOW BATTERY		X				
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL BATTERY OR CHARGER FAILURE			X			
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL ABNORMAL SWITCH OR CONTROL POSITION		X				
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT			X			
FIRE ALARM PANEL, TRANSPONDER, NAC PANEL AC POWER LOSS OR IRREGULARITY			X			
NOTIFICATION APPLIANCE CIRCUIT OR SLC LOOP GROUND FAULT, OPEN CIRCUIT, SHORT CIRCUIT			X			
INITIATING DEVICE			X			
FAILURE OR COMMUNICATION ERROR				X		
FIRE ALARM PANEL MANUAL FIRE DRILL		X			X	X
SMOKE DETECTOR		X			X	X

1 FIRE ALARM OPERATION MATRIX

NO SCALE

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
ABV	ABOVE
AFC	ABOVE FINISHED CEILING
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ASR	ARCHITECTURAL SURFACE RACEWAY
BC	BELOW COUNTER
C	CONDUIT (BRANCH CIRCUIT OR FEEDER CONTEXT)
CO	CONDUIT AND BOX ROUGH-IN ONLY (ROUGH-IN ONLY)
EG	EQUIPMENT GROUND
EGC	EQUIPMENT GROUNDING CONDUCTOR
EOL	END OF LINE
EPO	EMERGENCY POWER OFF
GFR	GROUND FAULT REMOTE
HOA	HAND/OFF/AUTO
ITR	IT RACK MOUNTED RECEPTACLE
NC	NORMALLY CLOSED
NEMA #	NEMA RATING
NIC	NOT IN CONTRACTED SCOPE
NO	NORMALLY OPEN
ROOF	EQUIPMENT LOCATED ON ROOF ABOVE
SM	SURFACE MOUNTED
TPY	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED

CONTRACTOR ABBREVIATION KEY

ABBR:	DESCRIPTION:
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	SPEC SECTION:	DESCRIPTION:
	REFER TO LUMINAIRE SCHEDULE		LINEAR LUMINAIRES
			TROFFER
			DOWNLIGHT LUMINAIRE
			SINGLE FACE EXIT SIGN
			DOUBLE FACE EXIT SIGN
			EMERGENCY UNIT

LIGHTING SYSTEM DESCRIPTION KEY:

THE DESIGN DOCUMENTS DESCRIBE THE OPERATIONAL PERFORMANCE REQUIREMENTS OF THE LIGHTING CONTROL SYSTEM. THE PROJECT MAY REQUIRE ONE OR MORE LIGHTING CONTROL STRATEGIES FOR THE PROJECT. REFER TO THE ELECTRICAL SYMBOL KEY, SPECIFICATION SECTION 26 09 33 LIGHTING CONTROL SYSTEMS, AND THE DRAWINGS TO DETERMINE THE DESIGN APPLICATION FOR EACH SPACE. THE POTENTIAL STRATEGIES ARE AS FOLLOWS:

1. STANDALONE LIGHTING CONTROL DEVICES: INDEPENDENT (STANDALONE) DEVICES TRADITIONALLY OPERATING AT LINE OR LOW VOLTAGE, FIELD CONFIGURABLE WITH OTHER STANDALONE DEVICES TO PROVIDE AN OVERALL LIGHTING CONTROL SYSTEM.

LIGHTING CONTROL SYSTEM DESIGNATION: THE FOLLOWING KEY MAY BE USED AS AN EXAMPLE TO DETERMINE THE DESIGNATED LIGHTING CONTROL SYSTEM FOR EACH SPACE. REFER TO ELECTRICAL COVERSHEET FOR ELECTRICAL SYMBOLS LIST AND DEVICE SPECIFICATION TAG. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

1. **STANDALONE LIGHTING CONTROL DEVICES:** CONTROL STATION COMMONLY DEFINED BY AN ALPHA CHARACTER WITH SUBSCRIPTS.
 - A. EXAMPLE SYMBOL "S". SPECIFICATION TAG "SW-1P", DESCRIPTION "SWITCH-SINGLE POLE SWITCH".
 - B. EXAMPLE CONTROL DESIGNATION: a, b, c (WHEN REQUIRED TO CLARIFY DESIGN INTENT).
 - C. SINGLE POLE LIGHT SWITCH "SA" CONTROLS LUMINAIRES WITH THE SUBSCRIPT "s" WITHIN THE SAME SPACE.
 - D. REFER TO THE LIGHT CONTROL SEQUENCE OF OPERATION TAG (L#-##) FOR A COMPLETE DESCRIPTION OF THE LIGHTING CONTROL REQUIREMENTS.



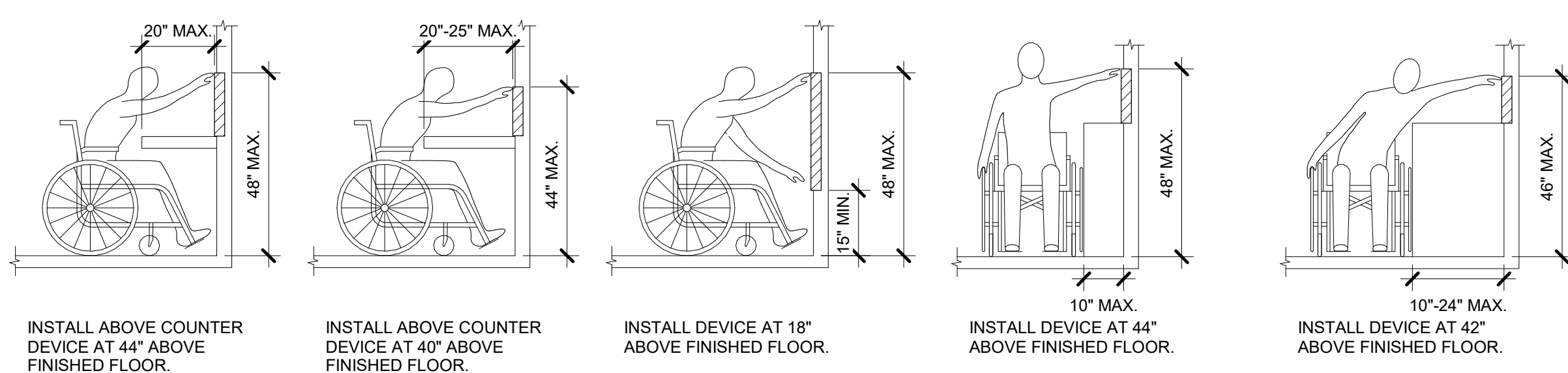
LUMINAIRE SHADING KEY

  NORMAL BRANCH LUMINAIRE

 EMERGENCY BRANCH LUMINAIRE

SHADED LUMINAIRE INDICATES LUMINAIRE IS CONNECTED TO AN EMERGENCY BATTERY.

HADED LUMINAIRE INDICATES LUMINAIRE IS CONNECTED TO AN EMERGENCY BATTERY.



ADA STANDARDS FOR ACCESSIBLE DESIGN

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED

- TO LIGHTING, POWER, FIRE ALARM, AND OTHER LOW VOLTAGE SYSTEMS.
3. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL REVIEW EXISTING SURVEYS, EXISTING BUILDING DOCUMENTS, CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
4. IF DISCREPANCIES ARE FOUND, THE CONTRACTOR SHALL REVIEW EXISTING CONDITIONS AND REPORT CONFLICTS.
5. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS PRIOR TO FABRICATION OF CABLE TRAYS, CONDUIT, OR DUCTWORK AND SHALL REPORT CONFLICTS AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
6. CONTRACTOR SHALL REVIEW EXISTING CONDITIONS TO VERIFY ACCESSIBILITY OF ELECTRICAL EQUIPMENT AND SHALL REPORT CONFLICTS AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
7. THE CONTRACTOR SHALL VERIFY THE FOLLOWING: FLOOR, CEILING, TILE/GIRTS, AND ROOF. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE CUTTING, REMOVAL, AND REPAIR OF ROOFING, CEILING, FLOOR, AND TILE/GIRTS. THE CONTRACTOR SHALL COORDINATING WITH THE GENERAL CONTRACTOR OR QUALIFIED CONTRACTOR.
8. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW ELECTRICAL SYSTEMS, THE CONTRACTOR SHALL REMOVE EXISTING ELECTRICAL SYSTEMS, ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT INTERFERE WITH EXISTING ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL PROVIDE FOR THE INSTALLATION OF NEW EQUIPMENT, PIPING, CONDUIT, AND DUCTWORK.

ELECTRICAL SYMBOL LIST - POWER			
SYMBOL	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
	ECONN	26 05 33	ELECTRICAL CONNECTION - WALL
	JB	26 05 33	JUNCTION BOX - WALL
	FB-#	26 27 26	ELECTRICAL FLOOR BOX
	SC-RI-W	26 05 33	INFORMATION OUTLET ROUGH-IN (WALL)
	SC-RI-C	26 05 33	INFORMATION OUTLET ROUGH-IN (CEILING)
	WW-#	--	ELECTRIC WIREWAY W/ DEVICES SHOWN
	PANEL-#H	--	PANELBOARD - SURFACE MOUNT

ELECTRICAL SYMBOL LIST - RECEPTACLES

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
		<u>REC-DUP</u>	26 27 26	DUPLEX RECEPTACLE, 125V
		<u>REC-DUP-GFI</u>	26 27 26	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER, 125V
		<u>REC-QUAD</u>	26 27 26	QUAD RECEPTACLE, 125V
		<u>REC-QUAD-GFI</u>	26 27 26	QUAD RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER, 125V

ELECTRICAL SYMBOL LIST - LIGHTING CONTROLS

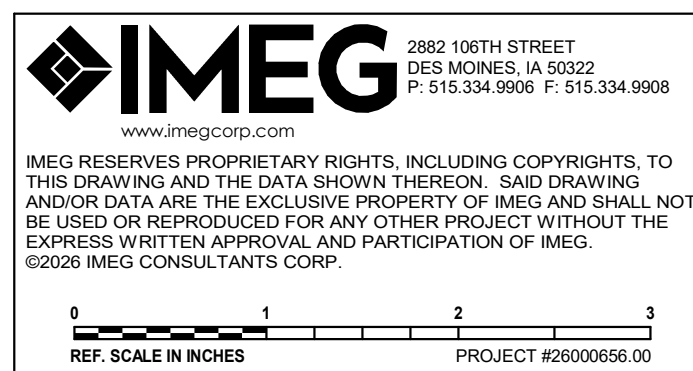
SYMBOL	TAG	EQUIP ABBREVI	SPEC SECTION	DESCRIPTION
S		<u>SW-1P</u>	--	SWITCH - SINGLE POLE
	3	<u>SW-3W</u>	--	SWITCH - THREE WAY
	D	<u>SW-D</u>	26 09 03	DIMMER - STAND ALONE
	O	<u>SW-O</u>	--	SWITCH - OCCUPANCY SENSOR AND SWITCH
		<u>SW-OC-D</u>	26 09 03	OCCUPANCY SENSOR - DUAL TECHNOLOGY
		<u>SW-OC-D-W</u>	--	OCCUPANCY SENSOR - DUAL TECHNOLOGY

FIRE ALARM SEQUENCES KEY:

SUBSCRIPTS: TYPE/PROGRAMMING:
15, 30, 75, 110, 177 CANDELA RATING

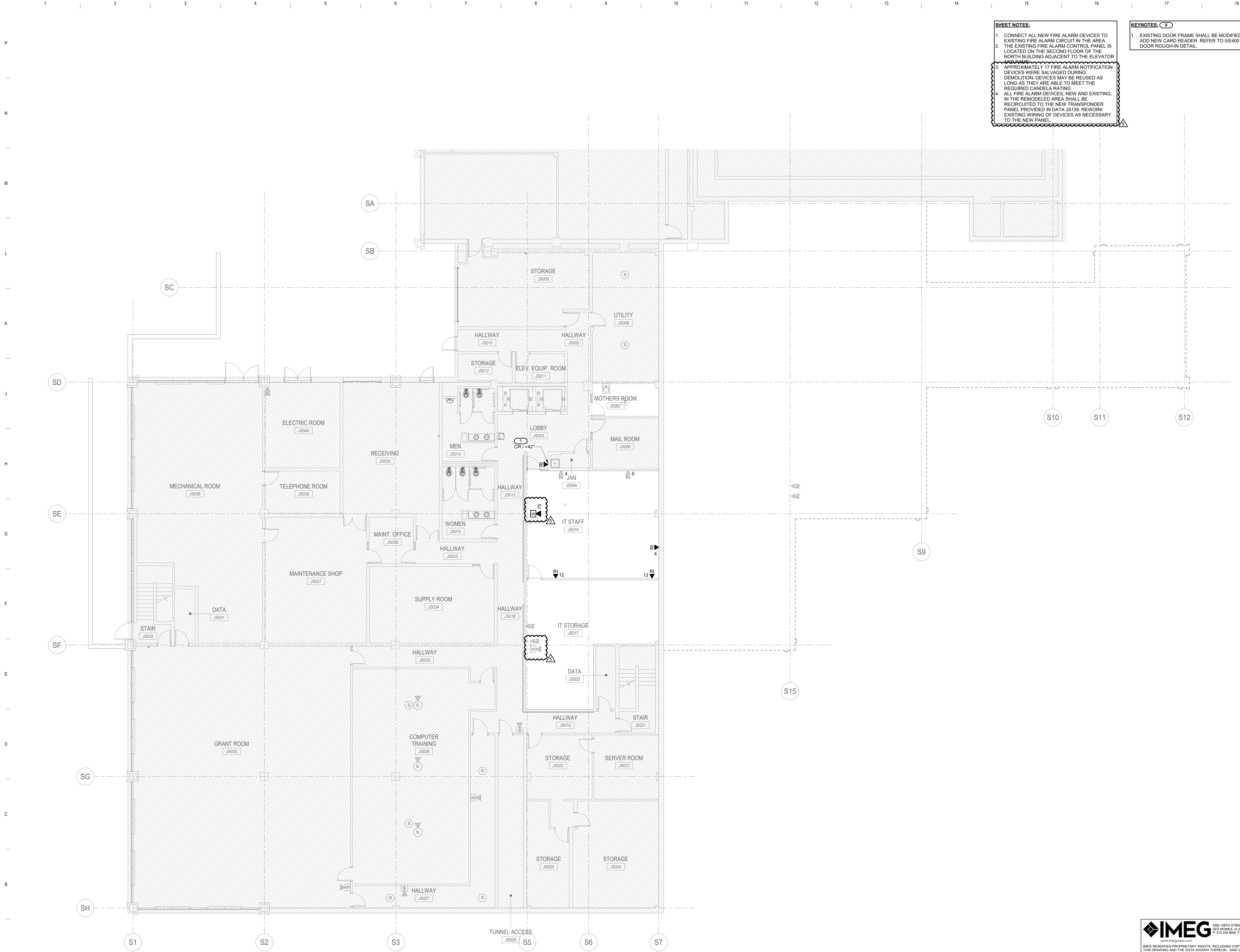
ELECTRICAL SYMBOL LIST - FIRE ALARM

SYMBOL	TAG	EQUIP ABBREV	SPEC SECTION	DESCRIPTION
# 		FA-120	28 31 00	SMOKE DETECTOR - PHOTOELECTRIC
		FA-130	28 31 00	MANUAL PULL STATION
# 	###	FA-200	28 31 00	VISUAL ALARM DEVICE - ### INDICATES CANDELA RATING
# 	###	FA-221	28 31 00	COMBINATION AUDIO (VOICE) / VISUAL ALARM DEVICE - ### INDICATES CANDELA RATING



4/30/2025 3:36:18 PM Autodesk Docs\0719-01 DOM-IT Jessie Parker South Building Renovation\MEP\74_26000666.00_DOM-IT Jessie Parker South Building Renovation_C.rvt

Copyright © Substance, LLC



SHEET NOTES:

1. CONNECT ALL NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM CIRCUIT IN THE AREA.
2. THE EXISTING FIRE ALARM CONTROL PANEL IS LOCATED ON THE SECOND FLOOR OF THE NORTH BUILDING ADJACENT TO THE ELEVATOR.
3. APPROXIMATELY 17 FIRE ALARM NOTIFICATION DEVICES WERE SALVAGED DURING DEMOLITION. DEVICES MAY BE REUSED AS LONG AS THEY ARE ABLE TO MEET THE REQUIRED CANDELA RATING.
4. ALL FIRE ALARM DEVICES, NEW AND EXISTING, IN THE REMODELED AREA SHALL BE RECIRCUITED TO THE NEW TRANSPONDER PANEL PROVIDED IN DATA JS126. REWORK EXISTING WIRING OF DEVICES AS NECESSARY TO THE NEW PANEL.

KEYNOTES: (#)

1. EXISTING DOOR FRAME SHALL BE MODIFIED TO ADD NEW CARD READER, REFER TO 5/E400 FOR DOOR ROUGH-IN DETAIL.

substancearchitecture

1300 Walnut Street, Suite 201
Des Moines, Iowa 50309
Ph. 515 243 4407
www.substancearchitecture.com

MEP Engineer

IMEG Corp.
2882 106th Street
Des Moines, IA 50322
Ph. 515 334 9906
www.imegcorp.com

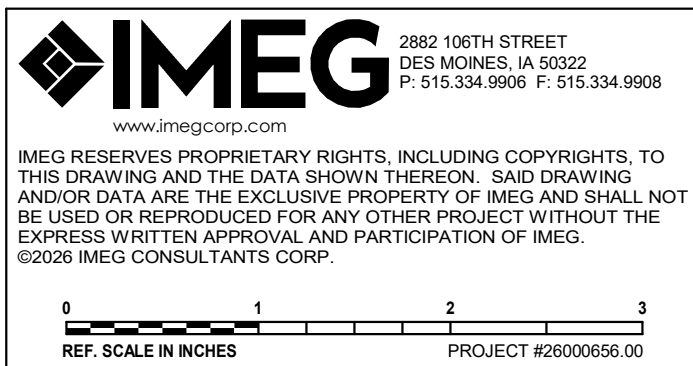
DOM-IT
DOM-IT Jessie Parker South Renovation

100% Documents

Substance No.: 0719-01
DOM-IT No.: #9518
Date: April 10, 2026

Revisions

MARK	DESCRIPTION	DATE
3	ADD 3	04/28/2026
5	ADD 5	05/01/2026

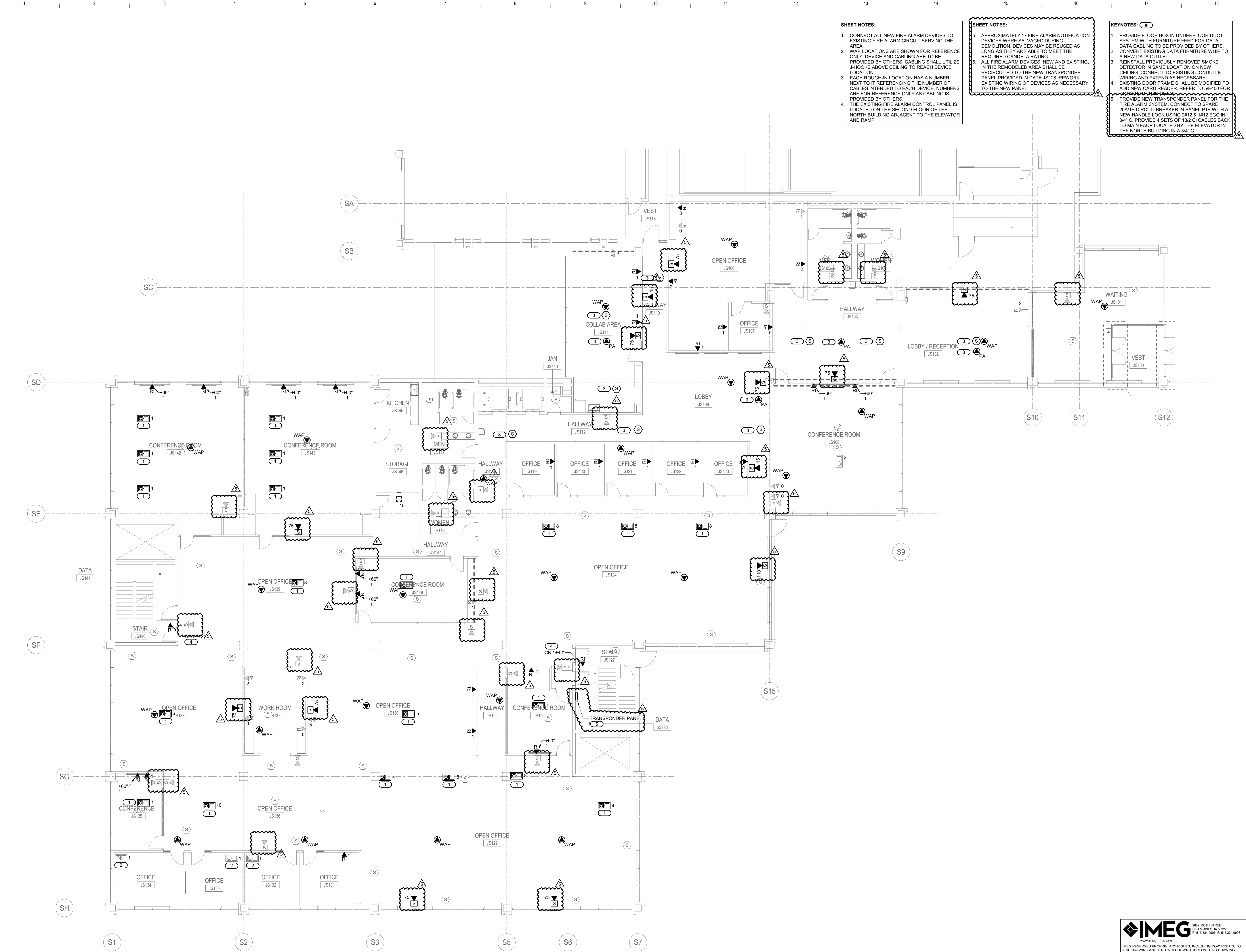


LOWER LEVEL FLOOR PLAN - SYSTEMS

E230

4/30/2025 3:36:19 PM Autodesk Docs/0719-01 DOM-IT Jessie Parker South Building Renovation/MEP724_26000666.00_DOM-IT Jessie Parker South Building Renovation_C.rvt

Copyright © Substance, LLC



SHEET NOTES:

1. CONNECT ALL NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM CIRCUIT SERVING THE AREA.
2. WAP LOCATIONS ARE SHOWN FOR REFERENCE ONLY. DEVICE AND CABLING ARE TO BE PROVIDED BY OTHERS. CABLING SHALL UTILIZE J-HOOKS ABOVE CEILING TO REACH DEVICE LOCATION.
3. EACH ROOM/HALL LOCATION HAS A NUMBER NEXT TO IT REFLECTING THE NUMBER OF CABLES INTENDED TO EACH DEVICE. NUMBERS ARE FOR REFERENCE ONLY AS CABLING IS PROVIDED BY OTHERS.
4. THE EXISTING FIRE ALARM CONTROL PANEL IS LOCATED ON THE SECOND FLOOR OF THE NORTH BUILDING ADJACENT TO THE ELEVATOR AND RAMP.

SHEET NOTES:

5. APPROXIMATELY 17 FIRE ALARM NOTIFICATION DEVICES WERE SALVAGED DURING DEMOLITION. DEVICES MAY BE REUSED AS LONG AS THEY ARE ABLE TO MEET THE REQUIRED CANDELA RATING.
6. ALL FIRE ALARM DEVICES, NEW AND EXISTING, IN THE REMODELED AREA SHALL BE REWIRING TO THE NEW TRANSponder PANEL PROVIDED IN DATA JS128. REWORK EXISTING WIRING OF DEVICES AS NECESSARY TO THE NEW PANEL.

KEYNOTES:

1. PROVIDE FLOOR BOX IN UNDERFLOOR DUCT SYSTEM WITH FURNITURE FEED FOR DATA. DATA CABLING TO BE PROVIDED BY OTHERS.
2. CONVERT EXISTING DATA FURNITURE WAP TO A NEW DATA OUTLET.
3. REINSTALL PREVIOUSLY REMOVED SMOKE DETECTOR IN SAME LOCATION ON NEW CEILING. CONNECT TO EXISTING CONDUIT & WIRING AND EXTEND AS NECESSARY.
4. EXISTING DOOR FRAME SHALL BE MODIFIED TO ADD NEW CARD READER. REFER TO 5/E400 FOR
5. PROVIDE NEW TRANSponder PANEL FOR THE FIRE ALARM SYSTEM. CONNECT TO SPARE 20A/1P CIRCUIT BREAKER IN PANEL P1E WITH A NEW HANDLE LOCK USING 2012 & 1412 EGC IN 3/4" C. PROVIDE 4 SETS OF 182 CI CABLES BACK TO MAIN FACP LOCATED BY THE ELEVATOR IN THE NORTH BUILDING IN A 3/4" C.

IMEG
2882 106th STREET
DES MOINES, IA 50322
P: 515.334.9906 F: 515.334.9908
www.imegcorp.com

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. THIS DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2025 IMEG CONSULTANTS CORP.

REF. SCALE IN INCHES
PROJECT #20000666.00

4/30/2025 3:36:20 PM Autodesk Docs\0719-01 DOM-IT Jessie Parker South Building Renovation\MEP174_26000666.00_DOM-IT Jessie Parker South Building Renovation_C.rvt

Copyright © Substance, LLC



SHEET NOTES:

1. CONNECT ALL NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM CIRCUIT SERVING THE AREA.
2. WAP LOCATIONS ARE SHOWN FOR REFERENCE ONLY. DEVICE AND CABLING ARE TO BE PROVIDED BY OTHERS. CABLING SHALL UTILIZE J-HOOKS ABOVE CEILING TO REACH DEVICE LOCATION.
3. EACH ROUGH-IN LOCATION HAS A NUMBER NEXT TO IT REFERENCING THE NUMBER OF CABLES INTENDED TO EACH DEVICE. NUMBERS ARE FOR REFERENCE ONLY AS CABLING IS PROVIDED BY OTHERS.
4. THE EXISTING FIRE ALARM CONTROL PANEL IS LOCATED ON THE SECOND FLOOR OF THE NORTH BUILDING ADJACENT TO THE ELEVATOR AND RAMP.

SHEET NOTES:

5. APPROXIMATELY 17 FIRE ALARM NOTIFICATION DEVICES WERE SALVAGED DURING DEMOLITION. DEVICES MAY BE REUSED AS LONG AS THEY ARE ABLE TO MEET THE REQUIRED CANDELA RATING.
6. ALL FIRE ALARM DEVICES, NEW AND EXISTING, IN THE REMODELED AREA SHALL BE RE-CIRCUITED TO THE NEW TRANSPONDER PANEL PROVIDED IN DATA JS128. REWORK EXISTING WIRING OF DEVICES AS NECESSARY TO THE NEW PANEL.

KEYNOTES: C #

1. PROVIDE FLOOR BOX IN UNDERFLOOR DUCT SYSTEM WITH FURNITURE FEED FOR DATA. DATA CABLING TO BE PROVIDED BY OTHERS.
2. EXISTING DOOR FRAME SHALL BE MODIFIED TO ADD NEW CARD READER. REFER TO S/E400 FOR DOOR ROUGH-IN DETAIL.

IMEG
2882 106th STREET
DES MOINES, IA 50322
P: 515.334.9906 F: 515.334.9908
www.imegcorp.com

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2025 IMEG CONSULTANTS CORP.

REF. SCALE IN INCHES
PROJECT #20000666.00

substancearchitecture

1300 Walnut Street, Suite 201
Des Moines, Iowa 50309
Ph. 515.243.4407
www.substancearchitecture.com

MEP Engineer

IMEG Corp.

2882 106th Street
Des Moines, IA 50322
Ph. 515.334.9906
www.imegcorp.com

DOM-IT
DOM-IT Jessie Parker South Renovation

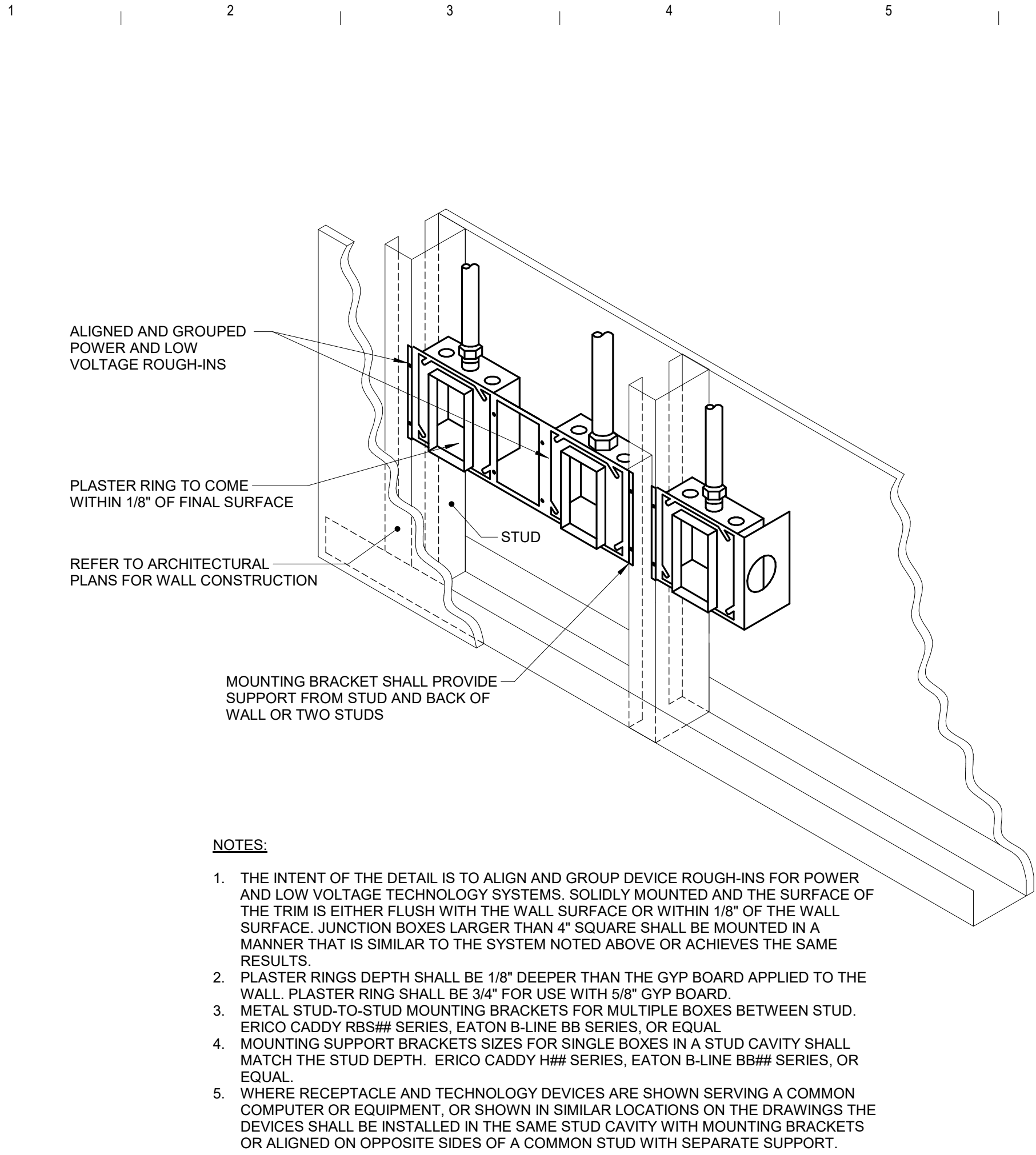
Substance No.: 0719-01
DOM-IT No.: #9518
Date: April 10, 2026

Revisions
MARK DESCRIPTION DATE
3 ADD 3 04/26/2026
5 ADD 5 05/01/2026

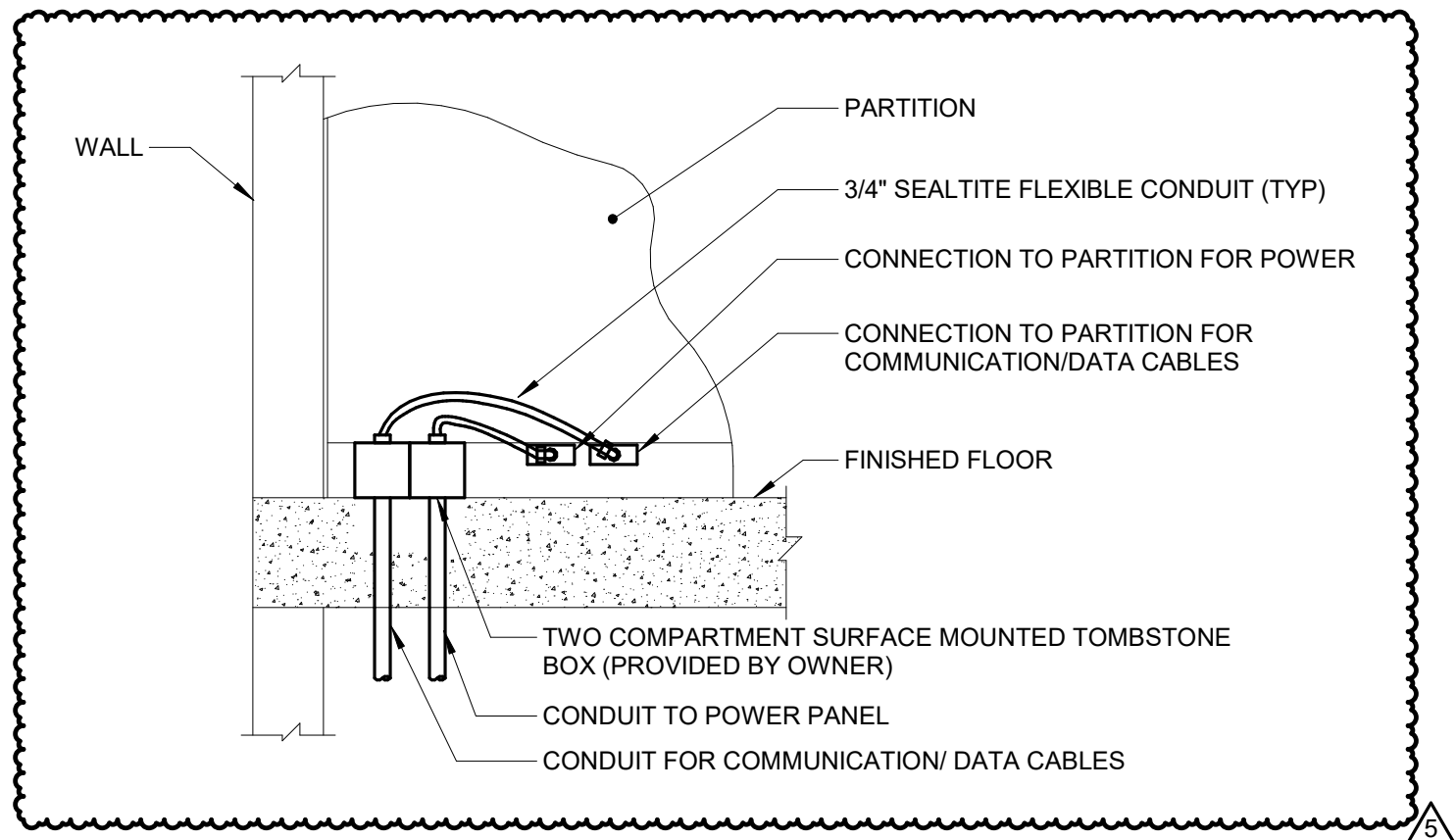
LEVEL 2 FLOOR PLAN - SYSTEMS

E232

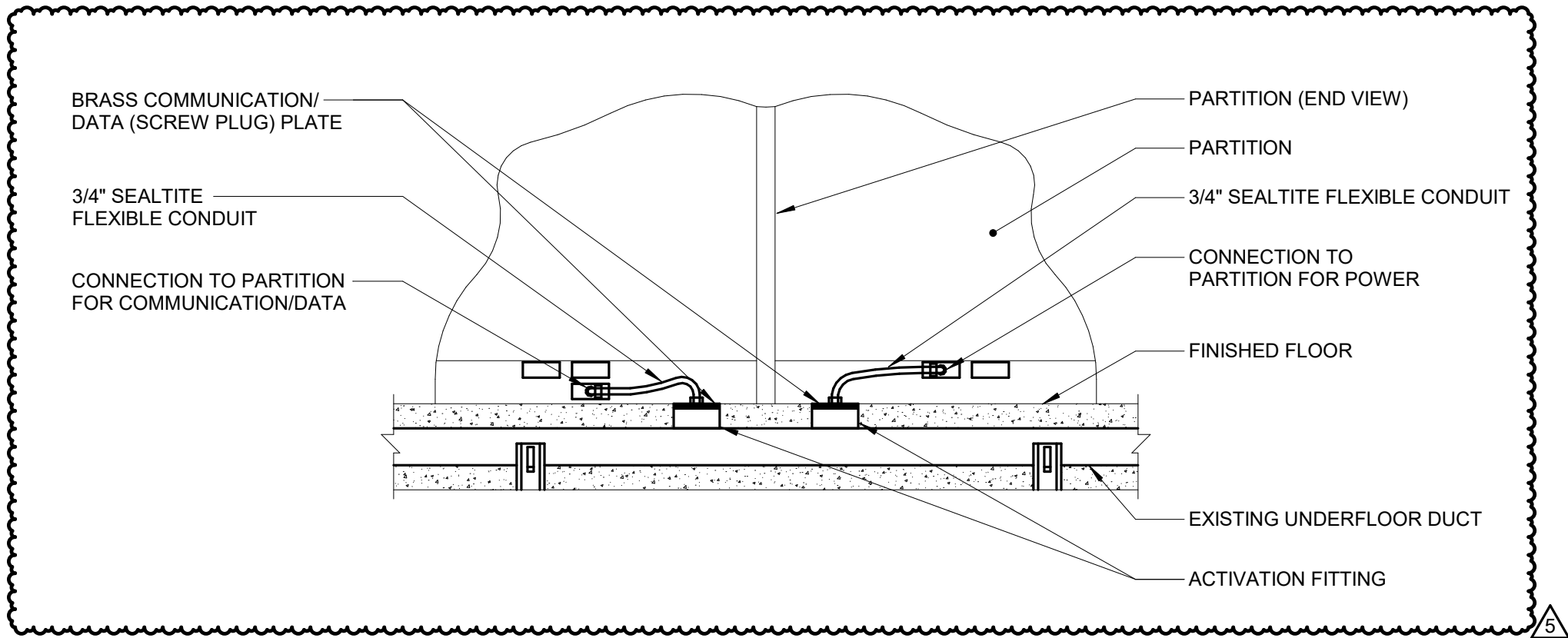
P
N
M
L
K
J
H
G
F
E
D
C
B
A



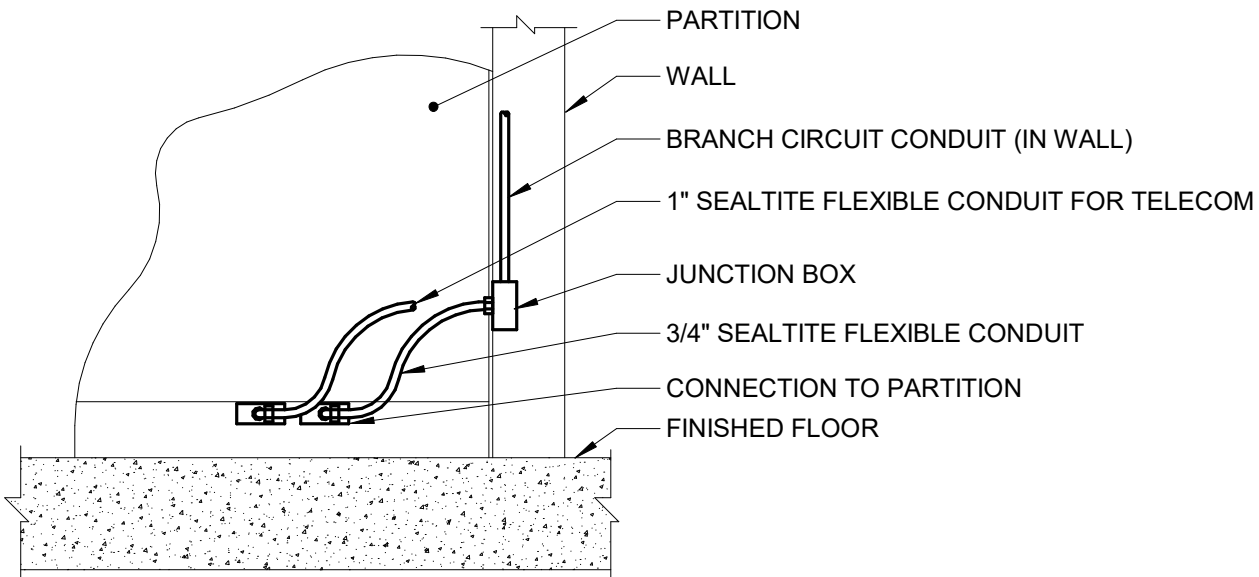
1 BACKBOX MOUNTING DETAIL
NO SCALE



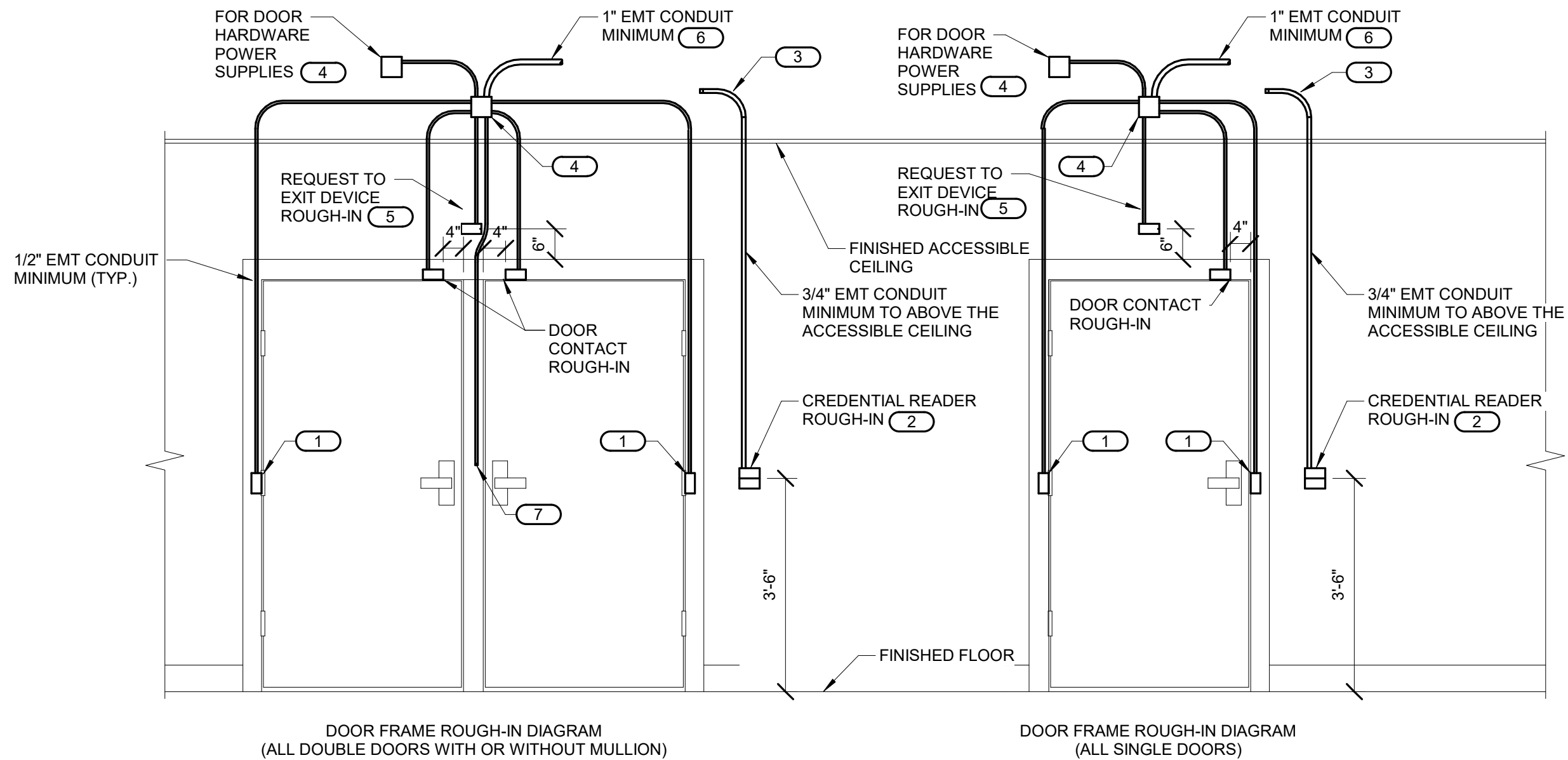
4 MODULAR FURNITURE CONNECTION - FLOOR OUTLET
NO SCALE



2 MODULAR FURNITURE CONNECTION - UNDERFLOOR OUTLET
NO SCALE



3 MODULAR FURNITURE CONNECTION - WALL OUTLET
NO SCALE



NOTES:

1. CONFIGURATIONS SHOWN IN THE DETAIL ABOVE ARE DIAGRAMMATIC, INTENDED TO DESCRIBE THE DOOR ROUGH-IN REQUIREMENTS. DETAILS ABOVE MAY NOT ACCURATELY REPRESENT DOOR SIZE, DOOR SWING, DOOR HARDWARE, OR DOOR FUNCTIONALITY. REFER TO ARCHITECTURAL DOOR HARDWARE SCHEDULE, DOOR HARDWARE GROUPS AND DOOR HARDWARE SPECIFICATIONS FOR COMPLETE INFORMATION. MIRROR THE DETAIL AS REQUIRED.
2. ROUGH IN SHOWN IN THE DETAIL ABOVE REPRESENTS THE MINIMUM REQUIREMENTS FOR ALL ACCESS CONTROL DEVICES AND CABLING UNLESS OTHERWISE NOTED. COORDINATE EXACT REQUIREMENTS WITH SELECTED DOOR MATERIALS, DOOR HARDWARE, AND OWNER'S SECURITY CONTRACTOR PRIOR TO INSTALLATION.
3. PATHWAY FOR CABLING IN WALLS AND WHERE EXPOSED ON VERTICAL SURFACES SHALL BE INSTALLED IN EMT CONDUIT OR SURFACE MOUNT RACEWAY.
4. THE ELECTRICAL OR SECURITY CONTRACTOR SHALL NOT MODIFY ANY FIRE RATED DOOR AND/OR DOOR FRAME. REFER TO THE ARCHITECTURAL DOOR SCHEDULE, DOOR HARDWARE SCHEDULE, AND DOOR HARDWARE SPECIFICATION FOR ADDITIONAL INFORMATION. MODIFICATION TO ANY FIRE RATED DOOR AND/OR FRAME WILL REQUIRE A RE-CERTIFICATION OF THE DOOR AND FRAME WITH THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
5. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOP MATERIALS FOR ALL ACCESS CONTROL ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

KEYNOTES:

1. PROVIDE JUNCTION BOXES IN THE DOOR FRAME WHERE SHOWN ON THIS DETAIL. ALL CONDUITS SHALL BE EMT CONDUIT UNLESS OTHERWISE NOTED. FLEXIBLE CONDUIT OF ANY TYPE WILL NOT BE ACCEPTED. COORDINATE INSTALLATION WITH ON-SITE DOOR FRAME INSTALLATION CONTRACTOR.
2. 4" SQUARE BACKBOX WITH SINGLE GANG PLASTER RING. PROVIDE 2 1/2" DEEP MASONRY BOX WHERE APPLICABLE. REFER TO FLOOR PLAN(S) FOR ACTUAL CARD READER ROUGH-IN LOCATIONS.
3. CONDUIT SHALL ROUTE FROM THE CREDENTIAL READER TO THE SECURED SIDE OF THE DOOR. CONDUIT SHALL ROUTE A MINIMUM OF 12" FROM THE JUNCTION BOX. PROVIDE A NYLON BUSHING ON CONDUIT END.
4. MOUNT A MINIMUM 4" SQUARE 2-1/8" DEEP JUNCTION BOX WITH BLANK COVER PLATE ON THE SECURED SIDE OF THE DOOR ABOVE ACCESSIBLE CEILING. INSTALLING CONTRACTOR SHALL SIZE THE JUNCTION BOXES PER SYSTEM INSTALLATION REQUIREMENTS AND APPLICABLE CODES. MAINTAIN ACCESS TO THE JUNCTION BOX. COORDINATE SYSTEM INSTALLATION REQUIREMENTS WITH OWNER'S SECURITY CONTRACTOR PRIOR TO ROUGH-IN.
5. PROVIDE A HORIZONTALLY MOUNTED SINGLE GANG BACKBOX FOR THE REQUEST TO EXIT SENSOR. COODINATE THE NEED OF THIS ROUGH-IN WITH DOOR HARDWARE AND OWNER'S SECURITY CONTRACTOR.
6. CONDUIT SHALL ROUTE A MINIMUM OF 12" FROM THE JUNCTION BOX. PROVIDE A NYLON BUSHING ON CONDUIT END.
7. CONDUIT INSTALLED IN PERMANENT MULLIONS ONLY. REFER TO THE ARCHITECTURAL DOOR SCHEDULE AND DOOR HARDWARE GROUPS FOR LOCATIONS THAT REQUIRE THIS ROUGH-IN. PROVIDE A NYLON BUSHING ON THE CONDUIT END.

5 DOOR ROUGH-IN DETAIL
NO SCALE



2882 106th STREET
DES MOINES, IOWA 50322
P: 515.334.9906 F: 515.334.9908
www.imegcorp.com

IMEG RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG. ©2026 IMEG CONSULTANTS CORP.

0 1 2 3
FEET
REF. SCALE IN FEET

0 1 2 3
INCHES
PROJECT #26000666.00



END OF ADDENDUM #05